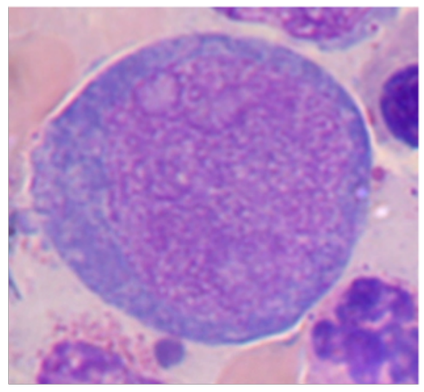
Erythroblast Progenitor Cell

All 3 respond to Erythropoietin (EPO Made From Kidney)

Proerythoblast/ Basophilic erythroblast

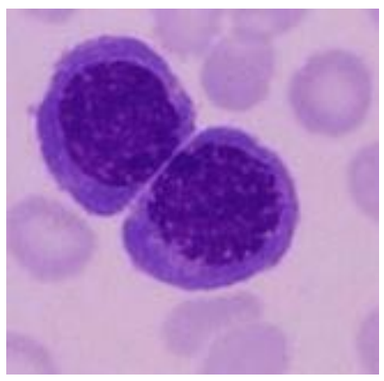


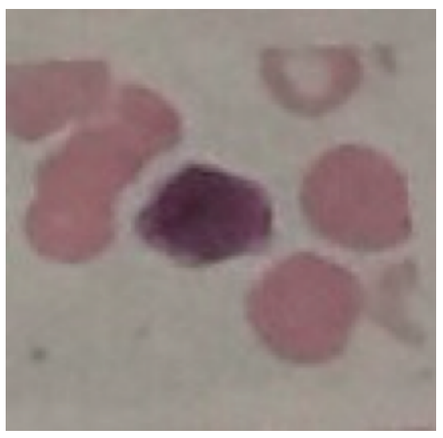
Mitosis

Proerythroblast is smaller than promyelocyte

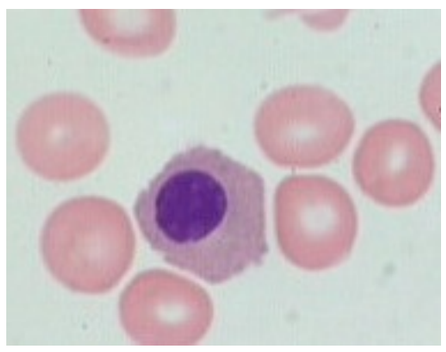
Amount of Hb outweighs RNA

Polychromatophilic erythroblast



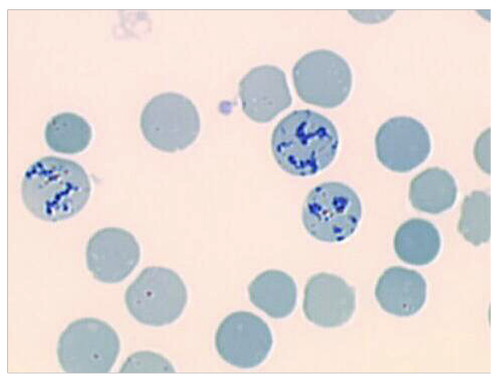


Orthochromatophilic erythroblast

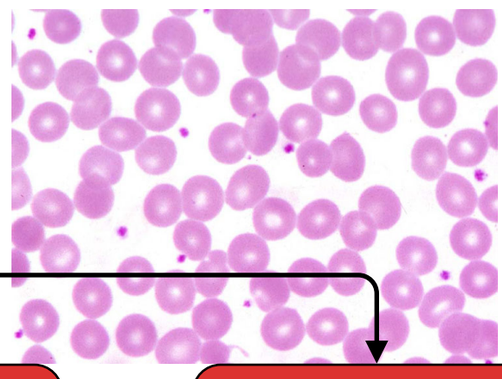


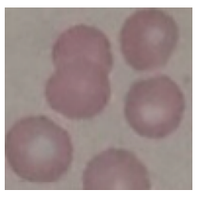
No mitosis

Reticulocytes



Erythrocyte





Parts

Glycophorin C: Mechanical Stability

Band 3: Anion Exchange, Chloride shift

Spectrin, ankyrin, actin

RBC

Hermorrhagic (Temp Blood loss)

Hemolytic (Unreg Blood loss)

Aplastic (Bone Marrow issue)

Hb Content

Fe decificecy (poor diet, occult blood loss)

Exertion

Pernicious (B12 Def)

Abnormal Hb

Sickle Cell (Val for Glu)

Hereditary Spherocytosis (abnormal spectrin)